AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A variable gain amplification circuit comprising:
- a signal generator having an <u>output load part comprising a variable resistor or a variable</u> inductor, and an output terminal;

a variable capacitor connected to <u>between</u> said output terminal <u>and an AC grounded</u> terminal; and

a control circuit operable to control an output amplitude of said signal generator and a capacitance <u>value</u> of said variable capacitor,

wherein said control circuit controls <u>the capacitance value of said variable capacitor so</u> that <u>as to make a cutoff frequency or a resonance frequency of said signal generator becomes</u> constant.

- 2. (Currently Amended) A variable gain amplification circuit as defined in Claim 1, wherein said signal generator includes [[a]] the variable resistor at [[an]] the output load part thereof.
- 3. (Currently Amended) A variable gain amplification circuit as defined in Claim 1, wherein said signal generator includes [[a]] the variable inductor at [[an]] the output load part thereof.
- **4.** (**Previously Presented**) A variable gain amplification circuit as defined in Claim 1, wherein said signal generator comprises:

a variable gain mixer having a first input terminal and a second input terminal; an RF signal source connected to said first input terminal of said variable gain mixer; and an LO signal source connected to said second input terminal of said variable gain mixer.

5. (**Previously Presented**) A variable gain amplification circuit as defined in Claim 1, wherein said signal generator comprises:

a variable gain amplifier having a first input terminal; and an RF signal source connected to the first input terminal of the variable gain amplifier.

6-14. (Canceled)

15. (**Previously Presented**) A variable gain amplification circuit as defined in Claim 5, wherein said RF signal source has a signal band equal to or larger than 100MHz.

16. (New) A variable gain amplification circuit comprising:

a signal generator having an output load part comprising a variable resistor or a variable inductor, and an output terminal;

a variable capacitor connected between said output terminal and an AC grounded terminal; and

a control means for controlling an output amplitude of said signal generator and for controlling a capacitance value of said variable capacitor so as to make a cutoff frequency or a resonance frequency of said signal generator constant.

- 17. (New) A variable gain amplification circuit as defined in Claim 16, wherein said signal generator includes the variable resistor at an output load part thereof.
- **18.** (New) A variable gain amplification circuit as defined in Claim 16, wherein said signal generator includes the variable inductor at an output load part thereof.
- 19. (New) A variable gain amplification circuit as defined in Claim 16, wherein said signal generator comprises:
 - a variable gain mixer having a first input terminal and a second input terminal; an RF signal source connected to said first input terminal of said variable gain mixer; and an LO signal source connected to said second input terminal of said variable gain mixer.
- **20.** (New) A variable gain amplification circuit as defined in Claim 16, wherein said signal generator comprises:
 - a variable gain amplifier having a first input terminal; and
 an RF signal source connected to the first input terminal of the variable gain amplifier.
- **21.** (New) A variable gain amplification circuit as defined in Claim 20, wherein said RF signal source has a signal band equal to or larger than 100MHz.